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HORIZON TM4

The New Horizon TM4
A compact, portable, video & audio transmission solution





HORIZON TM4

Video & Audio Transmission Solution

Overview

The new HORIZON TM4 is a compact, portable, video and audio transmission solution specifically designed to meet a wide range of application and operational requirements for deployment in both static and mobile scenarios.

The HORIZON TM4 with its high quality recording option, will support the connection and control of up to four PTZ cameras and transmit high quality, live video and audio back to any operations room, command and control centre, studio location or remote personnel. Those personnel may then view the live video stream using internet connected desk, portable or even hand held viewers from anywhere in the world.

Designed to transmit across mobile phone networks including HSPA, 3G and EDGE, the HORIZON TM4 uses its unique compression technology to allow transmission even when only GPRS is available!

The solution also offers Ethernet connectivity, so that it can be configured to transmit across other available network infrastructures, such as LAN, WAN, WiFi, Wireless IP Networks and even Satellite.

As with all Tellemachus HORIZON solutions, the receive equipment can be located at your premises, which together with the use of VPN and advanced encryption, ensures that your video and audio (if required) is completely secure and viewable by only your organisation.

Options

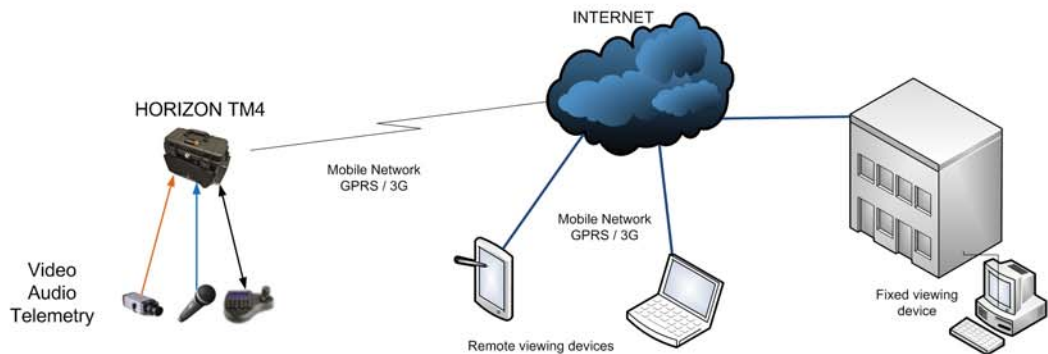
Designed in a modular format, HORIZON TM4's base configuration can be supplied in a non-ruggedised or ruggedised format which may be enhanced with the following options:

- High quality 'front-end' recording, where the video from up to four cameras is recorded on a high quality, integrated DVR which has a removable hard drive available in a range of sizes.
- An integrated ADSL/dual sim Router can offer direct connectivity to broadband together with fail over to the resilient use of the best available 3G/HSPA coverage, via dual sim slots.
- An integrated SMS module will allow the whole device and the recording or router or WiFi to be remotely powered off and on, thereby increasing operational time while on battery power.
- An integrated WiFi module which may be configured as either an access point to allow recorded video to be remotely downloaded or as a WiFi client for use as a short range transmission medium.
- A simple BNC 'video out' connectivity allows live or recorded video to be available in a composite format for use with DVB-T or external recording.



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Benefits

- Transmits secure, high quality video and audio wirelessly via mobile phone or other available networks
- Unique image optimisation feature - allows users to remotely view and then optimise 'far-end' images. These optimised images can then be saved and distributed
- Support for a range of camera protocols with telemetry control of up to 4 PTZ cameras
- Portable and rugged solution - designed for use in all types of static and mobile scenarios
- Unique video retrieval function will allow remote retrieval of recorded footage
- Uses AES128 bit encryption (or higher) to ensure the integrity of the streamed video
- Low latency - means minimal delay between video source and viewer
- Can be easily deployed by non-technical staff

Applications

HORIZON TM4 is ideal for Outside Broadcasts, Media (Radio Stations), Geological Surveys in both mobile and static scenarios when live and recorded video and audio is required immediately and where no fixed infrastructure is readily available.

HORIZON TM4 can be used when immediate, temporary and discreet remote observation is required in many commercial, retail, construction or manufacturing situations.

Local Authorities can use HORIZON TM4 for discreet and remote observation in a range of scenarios including suspected 'fly-tipping' locations, vandalsim/illegal access to vacant council property, anti social situations and monitoring new/temporary traffic arrangements.

Optional GPS functionality allows you to track the location of any vehicle in which a HORIZON TM4 is being used.

The HORIZON TM4 can be powered by POWERCORE, the lighter and longer-running rechargeable battery solution from Tellemachus.



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Hardware

Physical (dimensions)	433mm (l) x 171mm (w) x 317mm (h)
Camera input	4 x BNC composite input
Operating temperature	+5 to +45, non-condensing
Video input format	PAL/NTSC/SECAM
Audio	Stereo Audio In/Stereo Audio Out
Alarm input (single)	Triggers at 5V
Input voltage	12V DC
Power consumption	24W Max 19.2W Nominal
Recording	Up to 25fps on all 4 inputs
Recording resolution (Pixels)	720 x 576 (PAL)
SMS Switch	Optional to switch single or multiple features
Video Out	Optional BNC Video Out
Wifi + ADSL/wifi + ADSL	Optional Wifi - 802.11b+g and ADSL and ADSL2+

Communications

Internet connectivity	10/100 RJ45 Ethernet connector for ADSL/3G network lines
PTZ connectivity	Cameras can be controlled via 232 up to 4PTZ cameras (Sony or Canon)
GPRS / 3G / HSDPA	Built in GPRS/3G/HSDPA Module
Bandwidths supported	9Kbps to 1 Mbps
Satellite connectivity	10/100 RJ45 Ethernet for Inmarsat GAN/BGAN Fleet Routers

Software

Viewers supported	Software available for Windows PC, and Windows Mobile 5/6 and Android
Video Frame Sizes Supported	From 100x120 up to 352x288 (CIF) at frame rates of 0.1 to 25fps (PAL)
High resolution Image Retrieval	Enhanced definition (up to 704x576) over user-definable areas via high quality JPEG
Encryption	Built in AES 128 or AES 256 encryption in addition to support for IP Sec VPN Connections
Minimum Server Specification	2GHz Processor, Windows Server 2003 or Linux preferred, 512Mb RAM, Sun Java JRE 1.5.0 or later

Options Available

TM4-B-N	HORIZON TM4 Transmits Only (Non Ruggedised)
TM4-B-A	HORIZON TM4 / ADSL-WiFi
TM4-B-G	HORIZON TM4 / 3G Router
TM4-R-N	HORIZON TM4 with Recording
TM4-R-W	HORIZON TM4 with Recording / WiFi
TM4-R-A	HORIZON TM4 with Recording /ADSL-WiFi
TM4-R-G	HORIZON TM4 with Recording / 3G Router
-S	SMS Option
-V	Video Out Option
-GPS	GPS